FIG.1

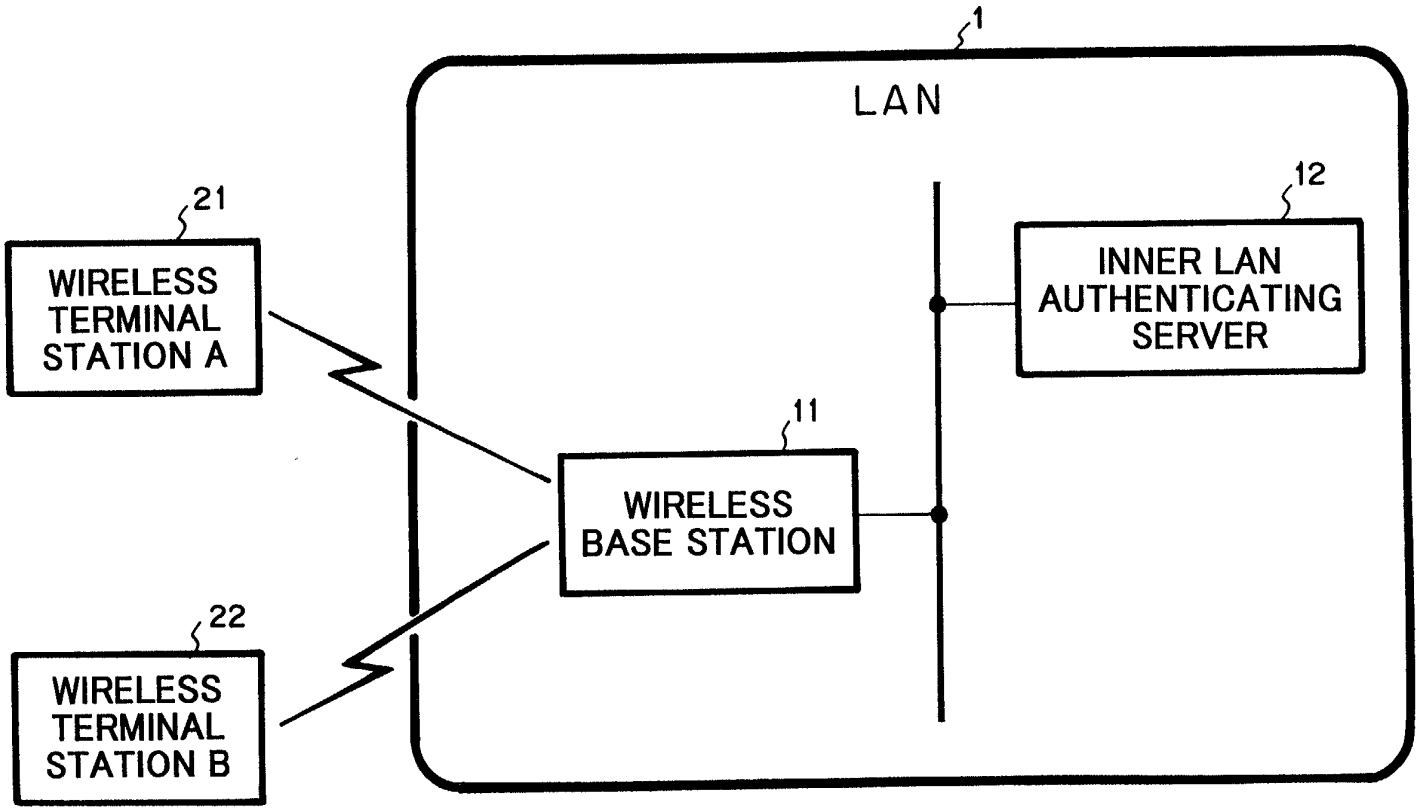
1
LAN
12
INNER LAN AUTHENTICATING SERVER
21
WIRELESS TERMINAL STATION A
11
WIRELESS BASE STATION
22
WIRELESS TERMINAL STATION B

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FIG.2

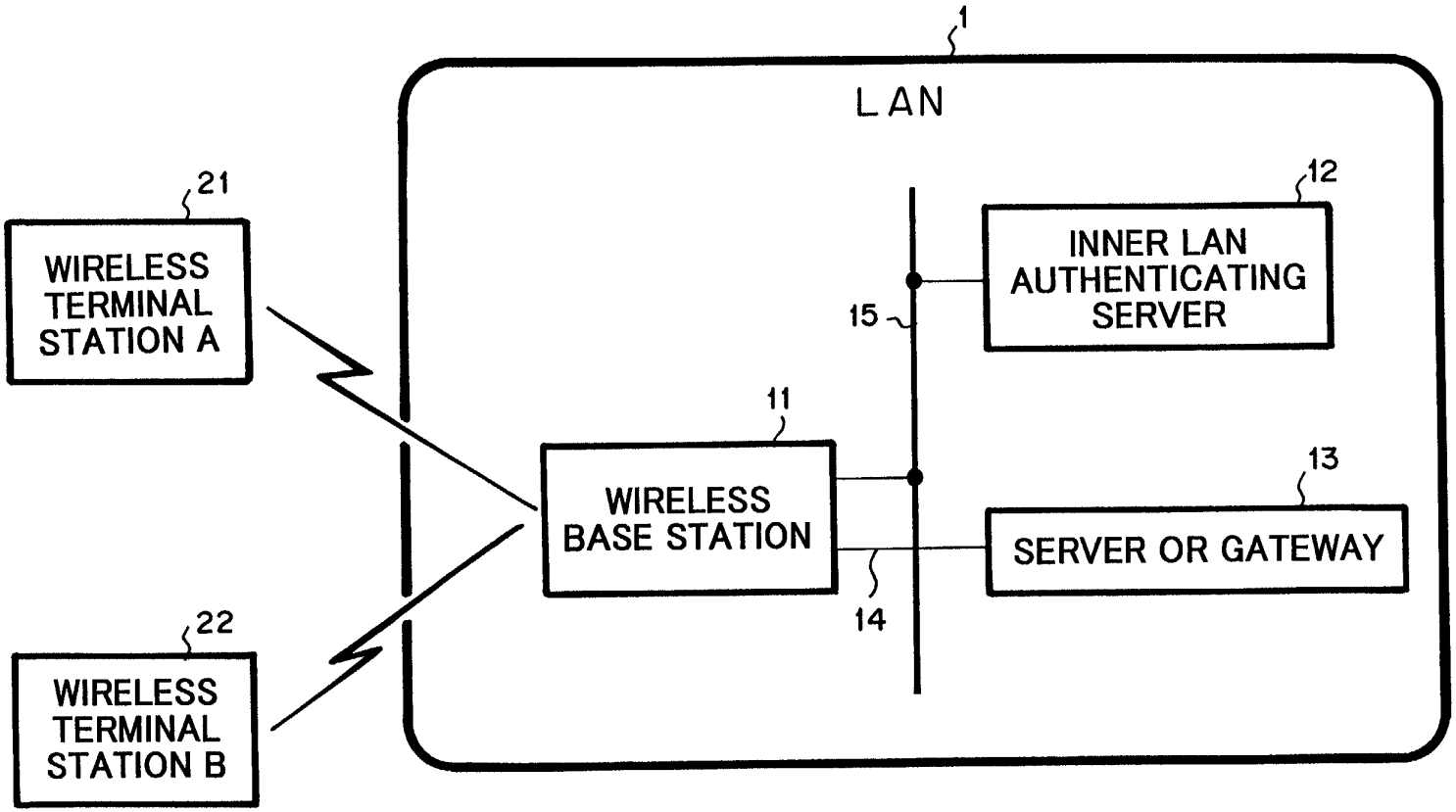

FIG.3

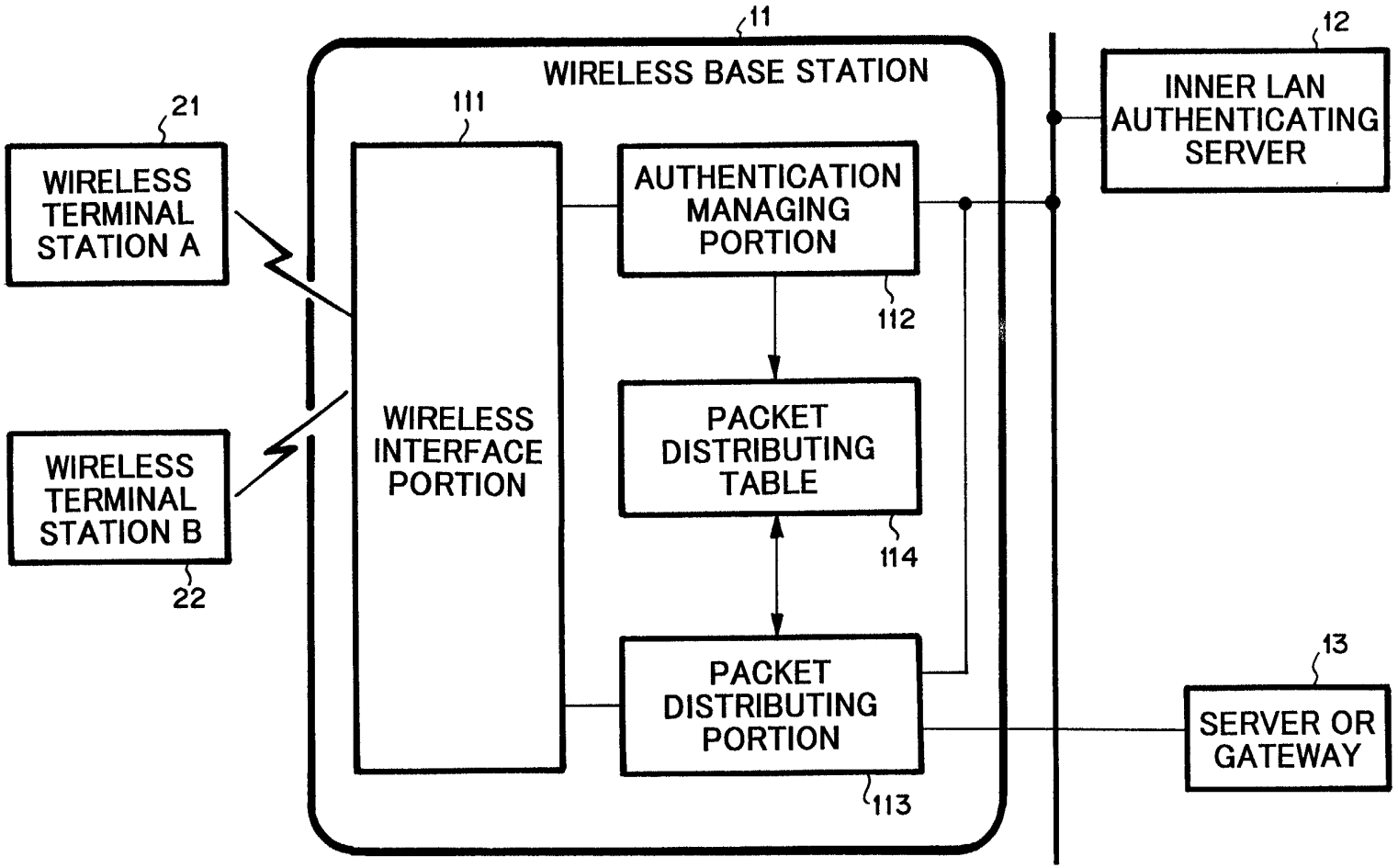
11
WIRELESS BASE STATION
12
INNER LAN AUTHENTICATING SERVER
21
WIRELESS TERMINAL STATION A
111
WIRELESS INTERFACE PORTION
AUTHENTICATION MANAGING PORTION
112
PACKET DISTRIBUTING TABLE
114
WIRELESS TERMINAL STATION B
22
PACKET DISTRIBUTING PORTION
113
13
SERVER OR GATEWAY

FIG.4

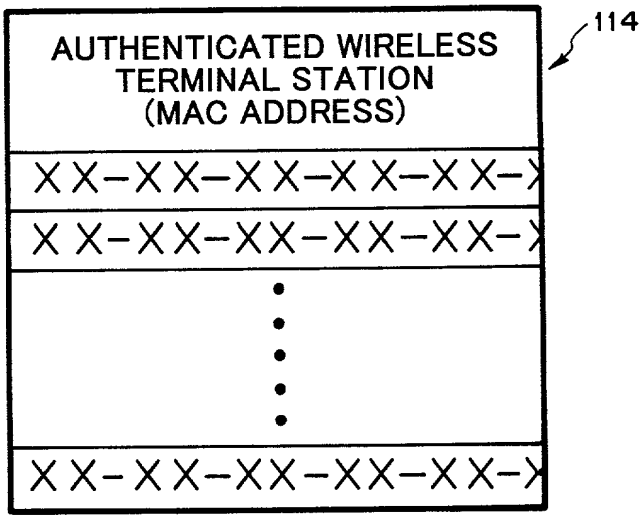
AUTHENTICATED WIRELESS TERMINAL STATION (MAC ADDRESS)
114
XX-XX-XX-XX-XX-X
XX-XX-XX-XX-XX-X
XX-XX-XX-XX-XX-X

FIG.5

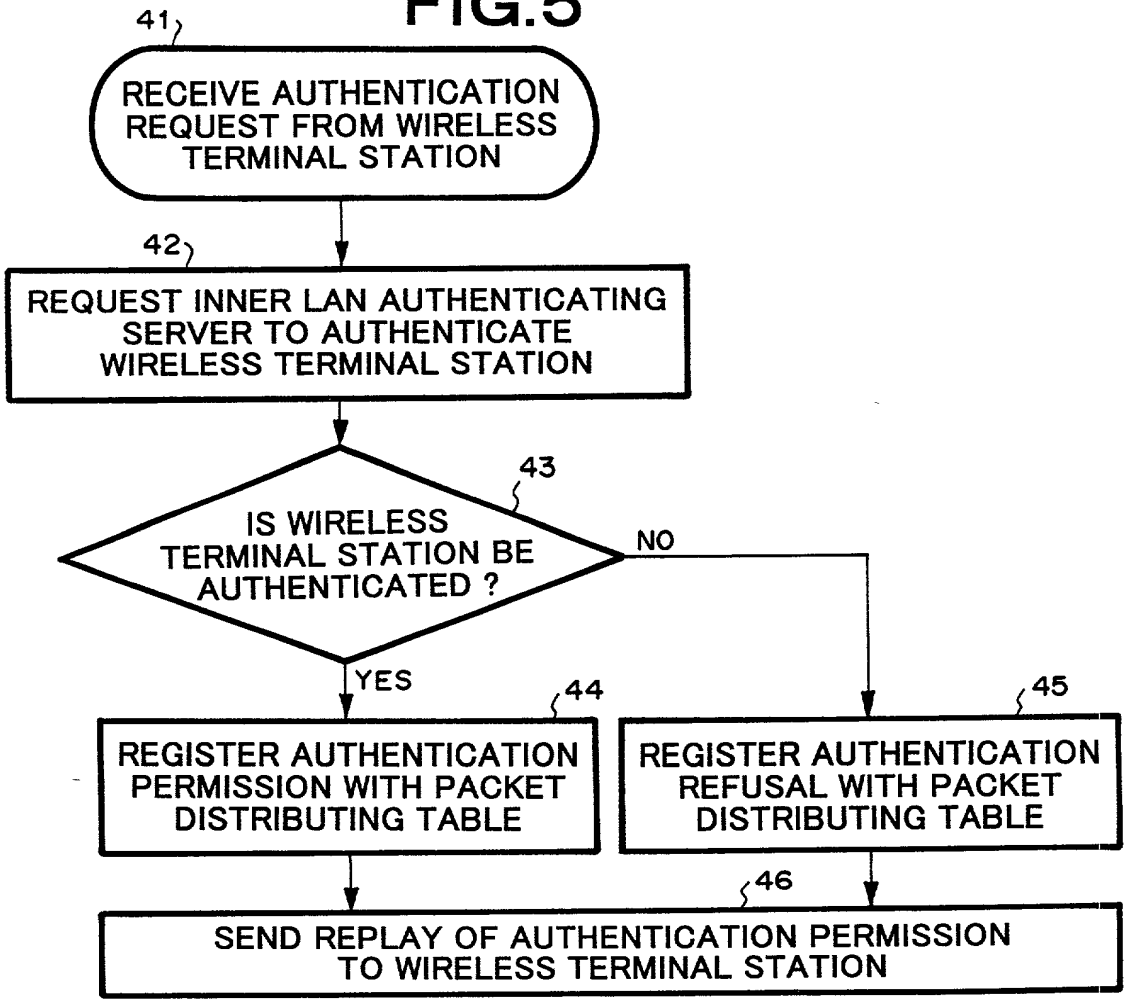
41
RECEIVE AUTHENTICATION REQUEST FROM WIRELESS TERMINAL STATION
42
REQUEST INNER LAN AUTHENTICATING SERVER TO AUTHENTICATE WIRELESS TERMINAL STATION
43
IS WIRELESS TERMINAL STATION BE AUTHENTICATED ?
NO
YES
44
REGISTER AUTHENTICATION PERMISSION WITH PACKET DISTRIBUTING TABLE
45
REGISTER AUTHENTICATION REFUSAL WITH PACKET DISTRIBUTING TABLE
46
SEND REPLAY OF AUTHENTICATION PERMISSION TO WIRELESS TERMINAL STATION

FIG.6

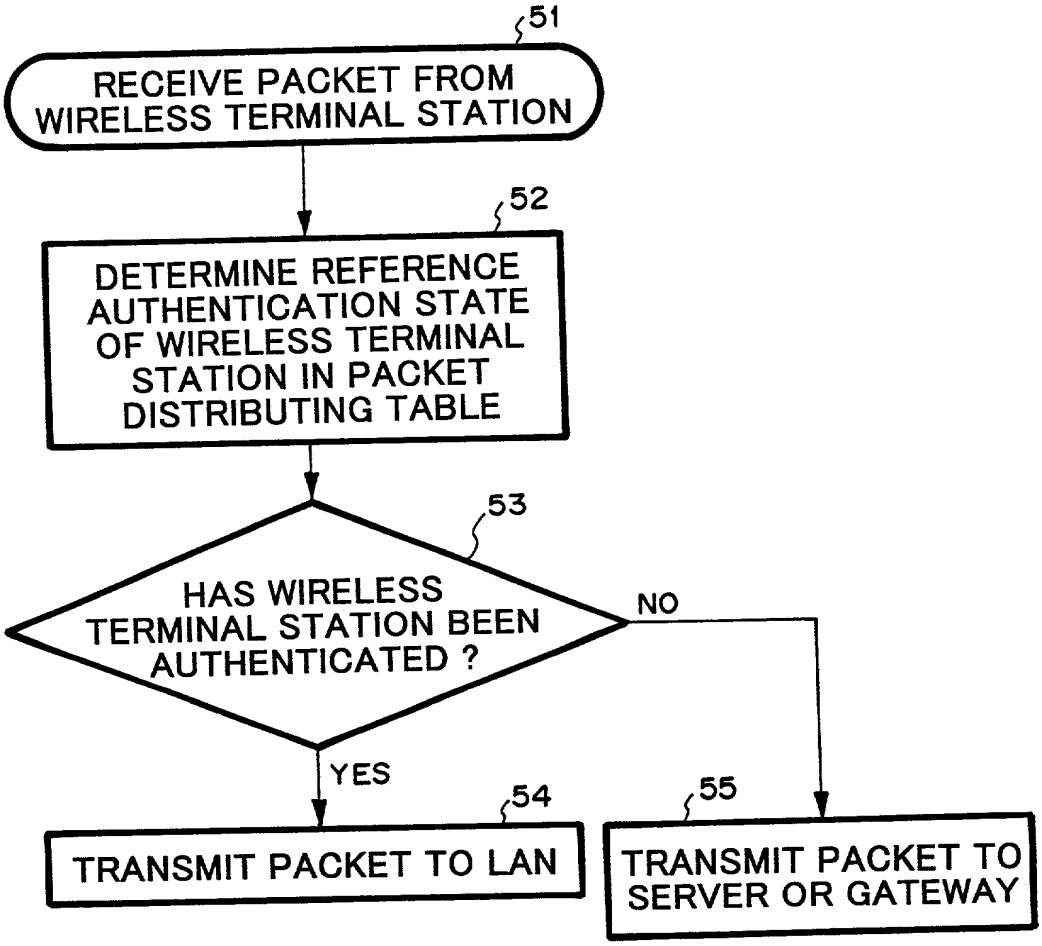
51
RECEIVE PACKET FROM WIRELESS TERMINAL STATION
52
DETERMINE REFERENCE AUTHENTICATION STATE OF WIRELESS TERMINAL STATION IN PACKET DISTRIBUTING TABLE
53
HAS WIRELESS TERMINAL STATION BEEN AUTHENTICATED ?
NO
YES
54
TRANSMIT PACKET TO LAN
55
TRANSMIT PACKET TO SERVER OR GATEWAY

FIG.7

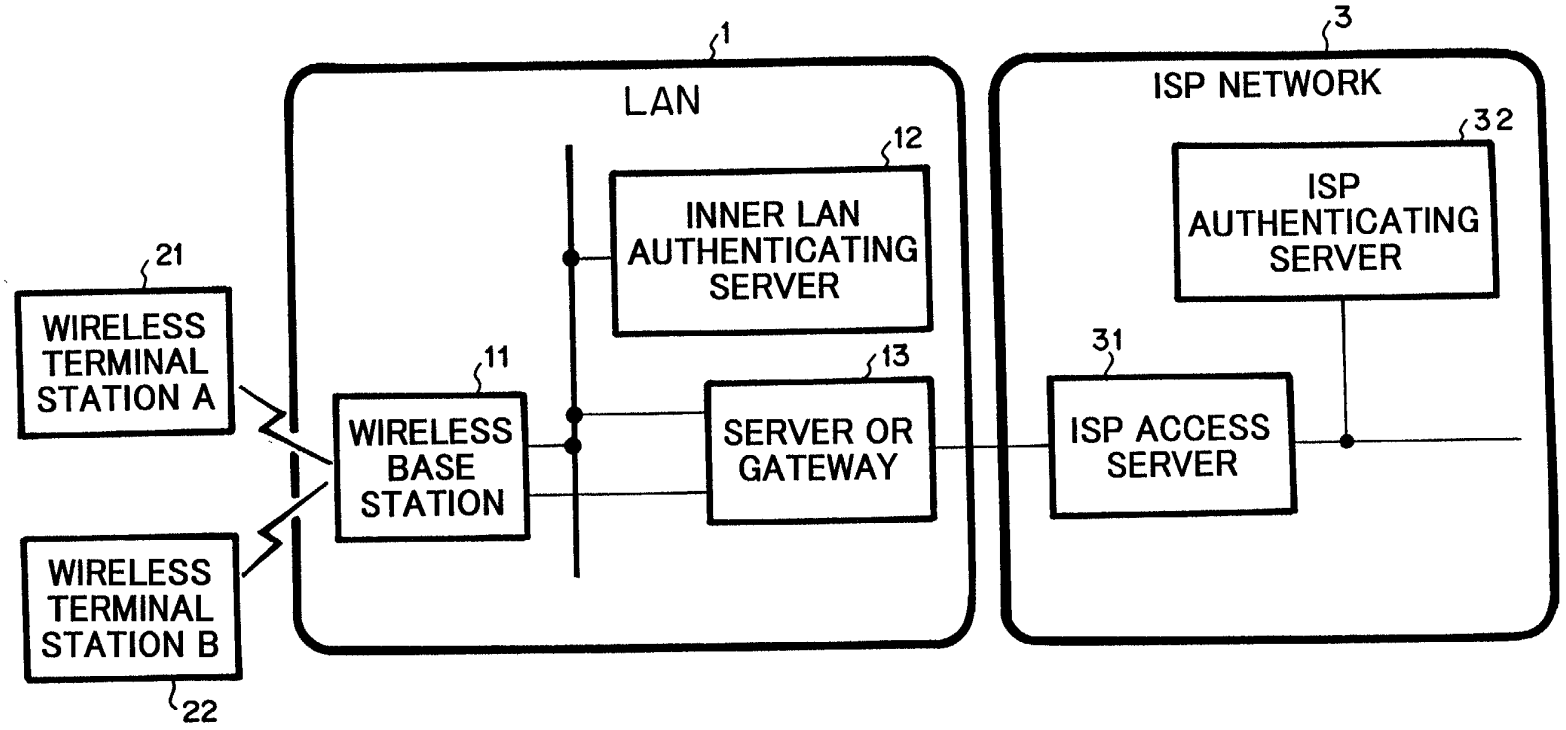
1
LAN
12
INNER LAN AUTHENTICATING SERVER
21
WIRELESS TERMINAL STATION A
11
WIRELESS BASE STATION
13
SERVER OR GATEWAY
WIRELESS TERMINAL STATION B
22
3
ISP NETWORK
32
ISP AUTHENTICATING SERVER
31
ISP ACCESS SERVER

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FIG.8

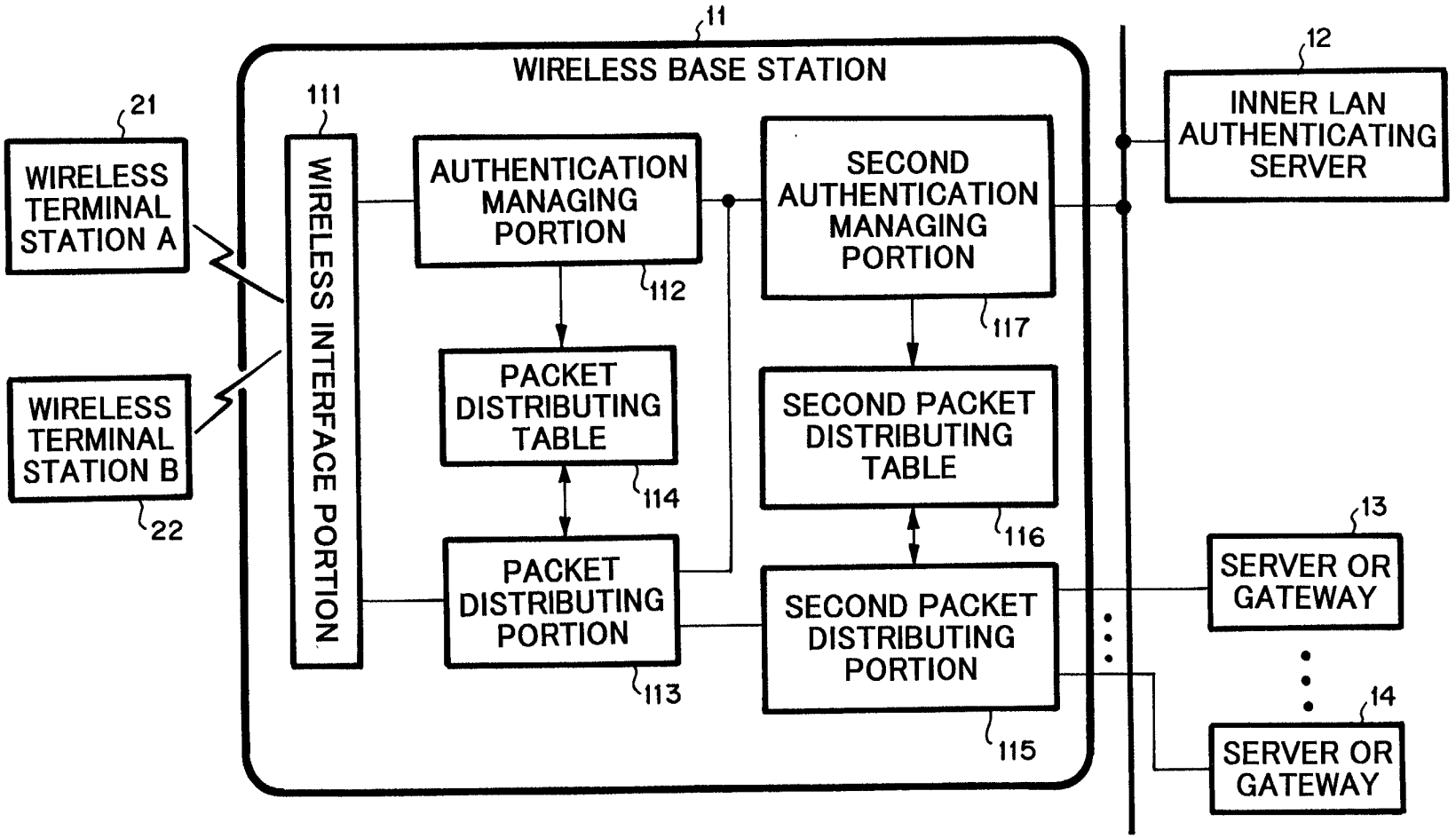

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FIG.9

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WIRELESS TERMINAL STATION (MAC ADDRESS)	DESTINATION TO WHICH PACKET IS DISTRIBUTED
XX-XX-XX-XX-XX-X	1
XX-XX-XX-XX-XX-X	2
• • • • •	
XX-XX-XX-XX-XX-X	n